

Reference 8: Japanese Utility Application Laid Open No. H4-124256

Title of the Invention: Photomask with Protection

Filing Date: April 22, 1991

Applicant: Hoya Corporation

Extract:

See a pellicle holding implement 4. The Examiner recognizes that it corresponds to the retainer 40 in the present application.

Fig. 1 is a cross-sectional view of a photomask in which the pellicle holding implement 4 secures a pellicle film 32 to a substrate 2 made of quartz glass. There is a pellicle frame 31 between the pellicle film 32 and the substrate 2. Fig. 2 shows a cross-sectional view of the pellicle holding implement 4.

**1. Korean Patent No. 142791 (Cited Reference 2)****[Abstract]**

The present invention relates to a reticle structure, and more specifically, to a reticle structure that is easy to handle and is not contaminated by outside factors. The present invention provides a reticle structure, which comprises a quartz substrate; a chrome pattern layer formed on the quartz substrate; and a top quartz plate identical in size to the quartz substrate and attached to the quartz substrate by applying an adhesive pad outside the quartz substrate such that the top quartz plate and the quartz substrate are uniformly spaced.

**[Claim 1]**

A reticle structure, comprising:  
a quartz substrate;  
a chrome pattern layer formed on the quartz substrate;  
a top quartz plate identical in size to the quartz substrate and attached to the quartz substrate by applying an adhesive pad outside the quartz substrate such that the top quartz plate and the quartz substrate are uniformly spaced.

**2. Japanese Laid-open Publication No. H11-044947 (Cited Reference 3)****[Abstract]**

**PROBLEM TO BE SOLVED:** To provide a new pellicle housing structure capable of restricting a pellicle in a tray by using the attraction force of a magnet.

**SOLUTION:** In a structure for housing pellicle A in case B comprising tray 5 and a cover 6, the pellicle A consists of frame 1; pellicle film 2 attached to the upper-end surface of frame 1; adhesive material 3 applied to the lower-end surface of frame 1; and protective film 4 attached to the lower-end surface of frame 1 so as to protect adhesive material 3. Frame 1 of pellicle A is formed from ferromagnetic metal and sheet-like magnet 9 is attached to the rear side of base part 5a of tray 5.

**[Claim 1]**

A housing structure for housing a pellicle in a case comprising a tray and a cover,

wherein the pellicle comprises:

- a frame;
- a pellicle film attached to the upper-end surface of the said frame;
- an adhesion material applied to the lower-end surface of the frame; and
- the pellicle which consists of a protection film attached to the lower-end surface of the frame in order to protect the adhesion material,

and wherein a magnet is affixed to either the said pellicle or the said tray and a ferromagnetic is affixed to the other, or a magnet is affixed to both the said pellicle and the said tray, and wherein the magnet exerts an attraction force between the said pellicle and the said tray to secure the said pellicle to the said case.